What is claimed is:

- 1. A faucet comprising:
 - a spout;
 - a passageway that conducts water flow through the spout;
 - a electrically operable valve disposed within the passageway;
 - a manual valve disposed within the passageway in series with the electrically operable valve;
 - a manual handle that controls the manual valve; and
 - a capacitive touch control that is positioned in the spout, where the capacitive touch control toggles the electrically operable valve.
- 2. The faucet of Claim 1, further comprising a logical control that toggles the electrically operable valve when the touch control is touched and released within a period of time shorter than a predetermined threshold, but which does not toggle the electrically operable valve when the touch control is touched for a period longer than the predetermined threshold.
- 3. The faucet of Claim 2, wherein the logical control toggles the electrically operable valve when the touch control is touched and released within a period of time between a predetermined lower bound and a predetermined upper threshold.

- 4. The faucet of Claim 3, wherein the predetermined lower bound is about 50ms, and the predetermined upper threshold is about 250ms.
- 5. The faucet of Claim 1, wherein the electrically operable valve is a magnetically latching valve.
- 6. The faucet of Claim 1, further comprising a proximity sensor that is sensitive to motion of objects within a detection zone of the proximity sensor.
- 7. The faucet of Claim 6, wherein the faucet has:
 - a manual mode, wherein the proximity sensor is inactive; and
 - a hands-free mode, wherein water flow is toggled on and off in response to the proximity sensor.
- 8. The faucet of Claim 1, further comprising a second capacitive touch control disposed within the manual handle that toggles the electrically operable valve.
- 9. A faucet comprising:
 - a spout;
 - a passageway that conducts water flow through the spout;
 - an electrically operable valve disposed within the passageway and having an opened position, in which water is free to flow through the passageway, and a closed position, in which the passageway is blocked;

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- a manual valve disposed within the passageway in series with the electrically operable valve;
- a manual handle that controls the manual valve;
- a first capacitive touch-control that is positioned in the spout and that generates a first output signal while the touch-control is in contact with a user;
- a second capacitive touch-control that is positioned in the manual handle and that generates a second output signal while the touch-control is in contact with a user;
- a logical control that receives the first and second output signals, and which toggles the magnetically latching valve when an output signal begins and ends within a period of time between a predetermined lower bound and a predetermined upper threshold; and
- a proximity sensor that is sensitive to motion of objects within a detection zone of the proximity sensor;
- wherein the faucet has a manual mode, wherein the proximity sensor is inactive, and a hands-free mode, wherein the magnetically latching valve is toggled between its opened and closed positions in response to the proximity sensor, subject to being over-ridden by the output signal and logical control.
- 10. A faucet comprising:
 - a spout;
 - a touch control disposed within the spout;

- a passageway that conducts water flow through the spout; an electrically operable valve disposed within the passageway;
- a logical control that toggles the electrically operable valve when the touch control is touched and released within a period of time less than a predetermined threshold, but which does not toggle the electrically operable valve when the touch control is touched for a period longer than the predetermined threshold.
- 11. The faucet of Claim 10, wherein the electrically operable valve is a magnetically latching valve.
- 12. The faucet of Claim 10, further comprising a proximity sensor that produces a sensor output corresponding to motion of objects within a detection zone of the proximity sensor.
- 13. The faucet of Claim 12, wherein the faucet has:a manual mode, wherein the proximity sensor is inactive; anda hands-free mode, wherein water flow is toggled on and off in response to the sensor output signal.
- 14. The faucet of Claim 10, further comprising a second electrically operable valve having a plurality of partially closed positions, the second electrically operable valve being disposed in the passageway upstream of a mixing point, such that the

second electrically operable valve affects the flow rate of only a hot or cold water supply.

- 15. The faucet of Claim 14, wherein the logical control directs the second electrically operable valve to change among open, closed, and partially closed positions in response to a duration of contact with the touch control.
- 16. A capacitive touch-control for a faucet having an electrically operable valve that is toggled in response to a toggle signal, the touch-control comprising:

 an electrode; and
 - a logical control that generates the toggle signal when the touch control is touched and released within a period of time less than a predetermined threshold, but which does not generate a toggle signal when the touch control is touched for a period longer than the predetermined threshold.
- 17. The capacitive touch-control of Claim 16, further comprising a proximity sensor that is sensitive to motion of objects within a detection zone of the proximity sensor.
- 18. The capacitive touch-control of Claim 17, wherein the predetermined lower bound is about 50ms and the predetermined upper threshold is about 250ms.